

Properties of Exponents HW (no negs)

Date _____ Period _____

Simplify.

1) $n \cdot 2n$

2) $2b \cdot 2b^2 \cdot b^0$

3) $(2r^2)^2$

4) x^2

Simplify. Your answer should contain only positive exponents.

5) $\frac{n^2}{n}$

6) $\frac{a}{2a^0}$

Simplify.

7) $a^2 \cdot 2a$

8) $k \cdot 2k$

Simplify. Your answer should contain only positive exponents.

9) $\frac{2p^2}{p^2}$

10) $\frac{2x}{2x^2}$

11) $\frac{n^2}{2n}$

12) $\frac{m}{2m^2}$

Simplify.

13) $2x^{\frac{1}{2}} \cdot 2x$

14) $n^{\frac{3}{2}} \cdot 2n \cdot 2n^{\frac{3}{2}}$

Simplify. Your answer should contain only positive exponents.

15) $\frac{4ba^2}{3ab^4}$

16) $\frac{3y^3}{3x^4 y^4}$

Simplify.

17) $n^3 \cdot 2n^2$

18) $2b^3 \cdot 4b^2 \cdot 4b^4$

Simplify. Your answer should contain only positive exponents.

19) $\frac{b}{b^2}$

20) $\frac{(v^2)^2}{v^3}$

21) $\frac{2v^2}{(-3v^2)^3}$

22) $\frac{2x}{(-2x^3)^2}$

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Date _____ Period _____

Simplify.

1) $n \cdot 2n$ $2n^2$

2) $2b \cdot 2b^2 \cdot b^0$ $4b^3$

3) $(2r^2)^2$ $4r^4$

4) x^2 x^2

Simplify. Your answer should contain only positive exponents.

5) $\frac{n^2}{n}$ n

6) $\frac{a}{2a^0}$ $\frac{a}{2}$

Simplify.

7) $a^2 \cdot 2a$ $2a^3$

8) $k \cdot 2k$ $2k^2$

Simplify. Your answer should contain only positive exponents.

9) $\frac{2p^2}{p^2}$ 2

10) $\frac{2x}{2x^2}$ $\frac{1}{x}$

11) $\frac{n^2}{2n}$ $\frac{n}{2}$

12) $\frac{m}{2m^2}$ $\frac{1}{2m}$

Simplify.

13) $2x^{\frac{1}{2}} \cdot 2x$ $4x^{\frac{3}{2}}$

14) $n^{\frac{3}{2}} \cdot 2n \cdot 2n^{\frac{3}{2}}$ $4n \cdot n^3$

Simplify. Your answer should contain only positive exponents.

15) $\frac{4ba^2}{3ab^4}$ $\frac{4a}{3b^3}$

16) $\frac{3y^3}{3x^4y^4}$ $\frac{1}{x^4y}$

Simplify.

17) $n^3 \cdot 2n^2$ $2n^5$

18) $2b^3 \cdot 4b^2 \cdot 4b^4$ $32b^9$

Simplify. Your answer should contain only positive exponents.

19) $\frac{b}{b^2}$ $\frac{1}{b}$

20) $\frac{(v^2)^2}{v^3}$ v

21) $\frac{2v^2}{(-3v^2)^3}$ $-\frac{2}{27v^4}$

22) $\frac{2x}{(-2x^3)^2}$ $\frac{1}{2x^5}$